

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/563,968	06/28/2007	Adnan Gabela	20459-00398-US1	7345		
30678 7590 05/12/2009 CONNOLLY BOVE LODGE & HUTZ LLP			EXAM	EXAMINER		
1875 EYE STREET, N.W.			BEACH, THOMAS A			
SUITE 1100 WASHINGTO	N. DC 20006	ART UNIT	PAPER NUMBER			
	,		3671			
			MAIL DATE	DELIVERY MODE		
			05/12/2009	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s) GABELA ET AL.	
10/563,968		
Examiner	Art Unit	
THOMAS A. BEACH	3671	

	THOMAS A. BEACH	3671	
The MAILING DATE of this communication app	ears on the cover sheet with	the correspondence ad	dress
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTH'S from the maining date of this communication - Flo period for reply is specified above, the maximum shallow, pround of - Flore of the reply is specified above, the maximum shallow, pround of - Flore of the reply is specified above, the maximum shallow, pround of - Flore of the reply received by the Office later than three months after the mailing	TE OF THIS COMMUNICA 6(a). In no event, however, may a reply ill apply and will expire SIX (6) MONTHS cause the application to become ABAN	TION. / be timely filed S from the mailing date of this of DONED (35 U.S.C. § 133).	
earned patent term adjustment. See 37 CFR 1.704(b). Status			
1) Responsive to communication(s) filed on 10 Ja			
	action is non-final.		
 Since this application is in condition for allowan closed in accordance with the practice under E. 		* *	ments is
Disposition of Claims			
4) Claim(s) 1-24 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	n from consideration.		
5)			
7) Claim(s) is/are rejected.			
8) Claim(s) are subject to restriction and/or	election requirement		
o, and cabjest to issuitation and a	olocion rodan omoni		
Application Papers			
9) The specification is objected to by the Examiner			
10) ☐ The drawing(s) filed on 10 January 2006 is/are:	a)⊠ accepted or b)□ obje	cted to by the Examin	er.
Applicant may not request that any objection to the o			
Replacement drawing sheet(s) including the correction		•	
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached C	ffice Action or form PT	O-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:	haran baran aran Sand		
 Certified copies of the priority documents Certified copies of the priority documents 		ligation No.	
Copies of the certified copies of the priority			Stage
application from the International Bureau	•	scived in this realional	olage
* See the attached detailed Office action for a list of		ceived.	
	·		
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/N	lail Date	
3) M information Disclosure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date	5) Notice of Infor	mal Patert Application	

Land to the second second	
U.S. Patent and Trademark Office	
PTOL-326 (Rev. 08-06)	

Application/Control Number: 10/563,968 Page 2

Art Unit: 3671

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The use of "and/or" renders the claims vague and indefinite as to what the meets and bounds of the claim are constituted by since it is not clear whether one or both elements are being claimed.

Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-19 and 22-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Krekeler 4,275,929. Krekeler shows a tooth system (fig 4) intended for a tool of an earth moving machine, which tooth system is of the type comprising a holder (18) attached to the tool and a front tooth portion (1), which is detachably arranged in relation to and on the holder (18) and is in the form of an exchangeable wear and/or replacement part intended for the actual earth moving, which tooth portion comprises a rear leg (12) and the holder (18) comprises a cavity designed to receive the leg (15) during interaction with the tooth portion and, thus, achieve a common joint for the absorption of arising forces through a predetermined connection geometry comprising

Art Unit: 3671

special, opposed, mutually interacting contact surfaces and, at least initially, clearance surfaces that are arranged along the tooth portion (1) and holder (18), wherein the tooth leg and cavity, along at least a front part of said joint have a multi-armed, cruciform, cross section (fig 1) comprising projection arms and grooves each interacting with a projection arm (15) and wherein a tensioning device (25) is arranged at the cavity's rear part for achieving a tightening and adjustable pretensioning of the tooth portion in relation to the holder (18) essentially axially along the cavity's longitudinal symmetry axis Y (fig 1-2).

As concerns claim 2, Krekeler shows the projection arms comprise at least one essentially vertically arranged arm (15) or heel (15) and two, theretoward essentially lateral, wing portions (fig 1)

As concerns claim 3, Krekeler shows the projection arms comprise an, essentially vertically arranged, upper arm, essentially vertically arranged, lower heel and two, essentially horizontally lateral wing portions (fig 1).

As concerns claim 4, Krekeler shows the tooth leg (12/15) has a rearwards convergent cross section (fig 1 & 2).

As concerns claim 5, Krekeler shows the cavity is designed as a notch (fig 1 & 2) inwardly convergent of the holder (18).

As concerns claim 6, Krekeler shows the cavity is open rearwards and upwards such that an open notch runs along the top side of the holder (fig 1-4).

As concerns claim 7, Krekeler shows the cavity's rear part is comprised of lengthwise side walls and a bottom that is essentially perpendicularly arranged to each

Art Unit: 3671

other with the cavity open upwards and to the rear, so that the cross section of this part is essentially U-shaped (fig 2).

As concerns claim 8, Krekeler shows a cross section within a middle part of the cavity (19) comprises a truncated, lower triangular part with essentially rounded comers, where the blunt, lower side forms the cavity's bottom and where the cross section's lower comers preferably comprise lengthwise clearance surfaces, while the cross section's upward continuation is primarily formed by inwardly angled lengthwise sides intended to form interacting contact zones together with the tooth leg's side surfaces and thereafter by lengthwise, essentially vertical, side walls at a certain distance from one another forming an upwardly open, upper notch neck (fig 1-2).

As concerns claim 9, Krekeler shows the grooves within a front part (fig 1-2) of the cavity each comprise an outwardly dilating of the notch cross section from within the cavity and forward in relation to the axial symmetry axis Y.

As concerns claim 10, Krekeler shows a middle part of the cavity (19) has a play arranged in part between the tooth leg's (12/15) lower sides and the cavity's (19) lengthwise sides (fig 1 &-2) at the cavity's bottom and in part between the tooth portion's spine part's sides and the cavity's lengthwise upper sides and between the tooth leg underside and the cavity's bottom.

As concerns claim 11, Krekeler shows the tooth portion (fig 4) comprises a spine part protruding through the open notch (fig 1 & 2).

As concerns claim 12, Krekeler shows secondary material reinforcement is arranged at the tooth portion's (fig 4) spine part

Art Unit: 3671

As concerns claim 13, Krekeler shows wherein along a rear part ~ of the joint between the connection parts are contact surfaces (fig 1-4) arranged in an acutely pointed angle that appears to be less than 10° with respect to the lengthwise symmetry axis Y or parallel thereto to the lengthwise symmetry axis Y.

As concerns claim 14, Krekeler shows the tooth portion or the holder comprises a protruding torque heel and that the opposed connection part comprises a corresponding depression, interacting with the heel (-34-) to absorb the laterally impacting transverse forces, which impact perpendicular to the axial symmetry axis Y.

15. (Currently amended) Tooth A tooth system (--1-) in accordance with claim 1, wherein the projection arms are comprised by one, essentially somewhat forwardly inclined and upward symmetrically arranged, tooth point (--34-), and the two, essentially horizontal, lateral wing portions symmetrical on either side of the tooth point (-34-) and an essentially downward vertically designed heel (--34-).

As concerns claim 16, Krekeler shows after the assembly of the holder (fig 4) and the tooth portion, an impact zone at the beginning of the joint between them forms a common stop zone, whose stop surfaces comprise the front side of the holder and the opposed back side of the tooth portion, where the greater part of the tooth portion's surfaces that is in contact with the front side of the holder, are situated on the same side as the holder of an imagined vertical plan positioned directly in front of the forwardmost parts of the holder.

As concerns claims 17-18, Krekeler shows contact zones for winch force absorption, as well as the torques resultant therefrom, are arranged along lower contact

Art Unit: 3671

surfaces at the tooth portion's (-5-) two lateral wing portions and upper contact surfaces at the top side of the tooth leg (12/15).

As concerns claim 19, Krekeler shows contact zones for shearing force ff,~ absorption, as well as that of torques resultant therefrom, are arranged along upper contact surfaces at the tooth portion's (fig 1-4) two lateral wing portions and lower contact surfaces at the lower side of the tooth leg.

As concerns claims 23-24, Krekeler shows the tooth system comprises a removable insert, suitably of hard metal, at the rear part of the joint within the cavity, which insert absorbs surface forces between the interacting connection parts and the earth moving machine, the tool and the wear and/or replacement parts for the removal and breaking of masses from a working surface, are especially exemplified by a dredger cutter's bore bit with its replaceable wear teeth (fig 4).

Allowable Subject Matter

4. Claims 20-22 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 3671

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Beach whose telephone number is 571.272.6988. The examiner can normally be reached on Monday-Friday, 8:00am-5:00om.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Will can be reached on 571.272.6998. The fax phone number for the organization where this application or proceeding is assigned is 571.273.8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas A. Beach

/Thomas A Beach/ Primary Examiner, Art Unit 3671

May 12, 2009

THOMAS A. BEACH Primary Examiner Group 3600